

IN THE CLAIMS:

Please amend the claims as follows:

1-21. (Cancelled)

22. (Previously Presented) An intermittent aerosol dispensing device for application of a product to skin of a human being, comprising
a cylinder adapted to be secured atop an aerosol can, said cylinder communicating with said product, pressurized in said can, via a port;
a piston forming a nozzle and adapted to reciprocate with respect to said cylinder; and
a needle valve adapted to intermittently engage against an inner surface of said piston, said piston and needle valve defining therebetween
a pressure chamber adapted to receive pressurized product, via said port, from said aerosol can, said pressurized product moving said piston and needle valve away from said port;
first coil spring, once differential pressure between said port and said pressure chamber has decreased, to urge said needle valve away from said piston, thereby venting said pressure chamber via said nozzle to ambient air for a predetermined injection time interval, and
second coil spring, once differential pressure between said pressure chamber and ambient air has decreased, to urge said piston against said needle valve for a predetermined stop time interval;
wherein, by appropriate selection of a spring constant of said second coil spring, a ratio of an injection time to a stop time is set to 0.1 to 5.0, when a valve is opened, in order to obtain a sufficient yet not excessive cooling and/or massage effect on the skin, and
wherein the product contains 20 to 70 % by weight of a liquefied gas in an aerosol composition.

23 (Cancelled)

24. (Previously Presented) An intermittent aerosol dispensing device for application of a product to skin of a human being, comprising

- a cylinder adapted to be secured atop an aerosol can, said cylinder communicating with said product, pressurized in said can, via a port;
- a piston forming a nozzle and adapted to reciprocate with respect to said cylinder;
- and
- a needle valve adapted to intermittently engage against an inner surface of said piston, said piston and needle valve defining therebetween
- a pressure chamber adapted to receive pressurized product, via said port, from said aerosol can, said pressurized product moving said piston and needle valve away from said port;
- first coil spring, once differential pressure between said port and said pressure chamber has decreased, to urge said needle valve away from said piston, thereby venting said pressure chamber via said nozzle to ambient air for a predetermined injection time interval, and
- second coil spring, once differential pressure between said pressure chamber and ambient air has decreased, to urge said piston against said needle valve for a predetermined stop time interval;
- wherein, by appropriate selection of a spring constant of said second coil spring, a ratio of an injection time to a stop time is set to 0.1 to 2.0, when a valve is opened, in order to obtain a sufficient yet not excessive cooling and/or massage effect on the skin,
- wherein the product contains 0.1 to 5% by weight of a compressed gas in an aerosol composition.

25. (New) The intermittent aerosol dispersing device according to claim 22, wherein the aerosol composition comprises an effective compound, and the product contains 20 to 70 % by weight of the liquefied gas and the effective compound in the aerosol composition.

26. (New) The intermittent aerosol dispersing device according to claim 25, wherein the product is used for a massage agent, a cleansing agent, an anodyne and antiphlogistic, or a tonic, and wherein the effective compound is selected from a moisturizing agent, an ultraviolet absorber, a skin softener, an amino acid, a vitamin, a hormone, an antioxidant, an extracted solution, a fungicide, an antiseptic, a deodorant, an antiperspirant, an anodyne and antiphlogistic, a refrigerant, an astringent, an anti-inflammatory, a local anesthetic, an antihistaminic, a whitening agent, a chemical for a tonic, a repellant, or a perfume.

27. (New) The intermittent aerosol dispersing device according to claim 24, wherein the aerosol composition comprises an effective compound, and the product contains 0.01 to 5 % by weight of the compressed gas and the effective compound in the aerosol composition.

28. (New) The intermittent aerosol dispersing device according to claim 27, wherein the product is used for a massage agent, a cleansing agent, an anodyne and antiphlogistic, or a tonic, and wherein the effective compound is selected from a moisturizing agent, an ultraviolet absorber, a skin softener, an amino acid, a vitamin, a hormone, an antioxidant, an extracted solution, a fungicide, an antiseptic, a deodorant, an antiperspirant, an anodyne and antiphlogistic, a refrigerant, an astringent, an anti-inflammatory, a local anesthetic, an antihistaminic, a whitening agent, a chemical for a tonic, a repellant, or a perfume.